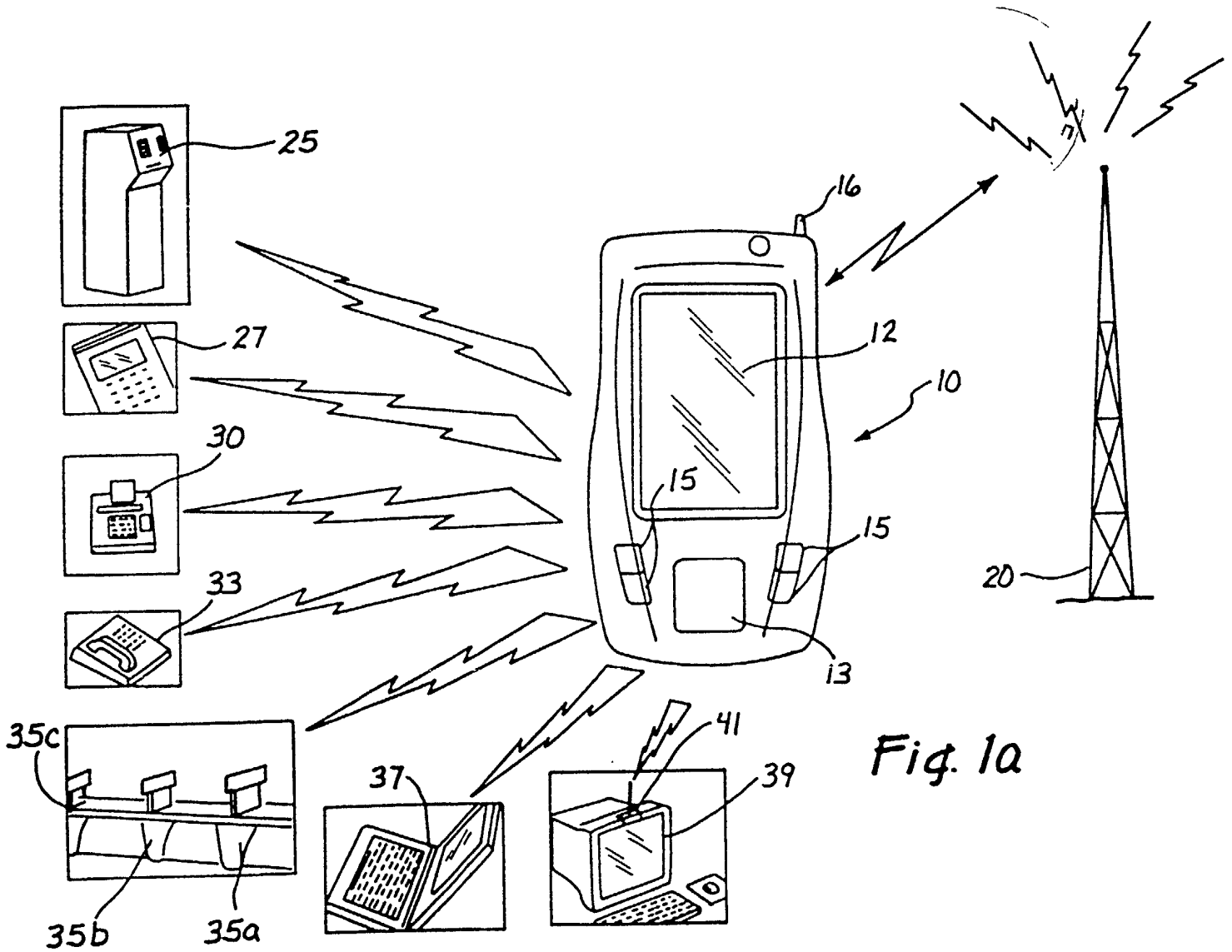


Fig. 1a

3053620 98806660

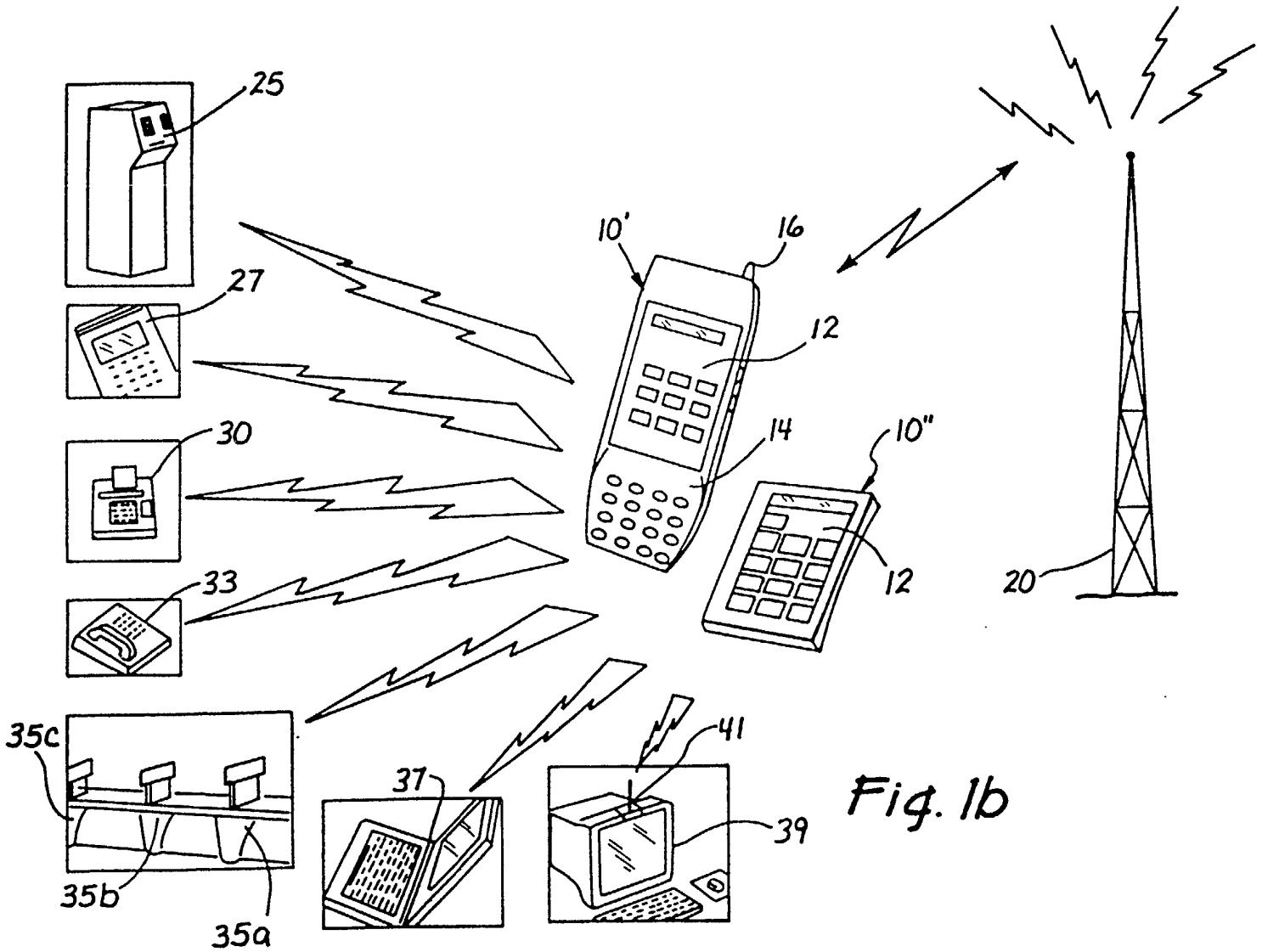


Fig. 1b

3056ED "9830E660

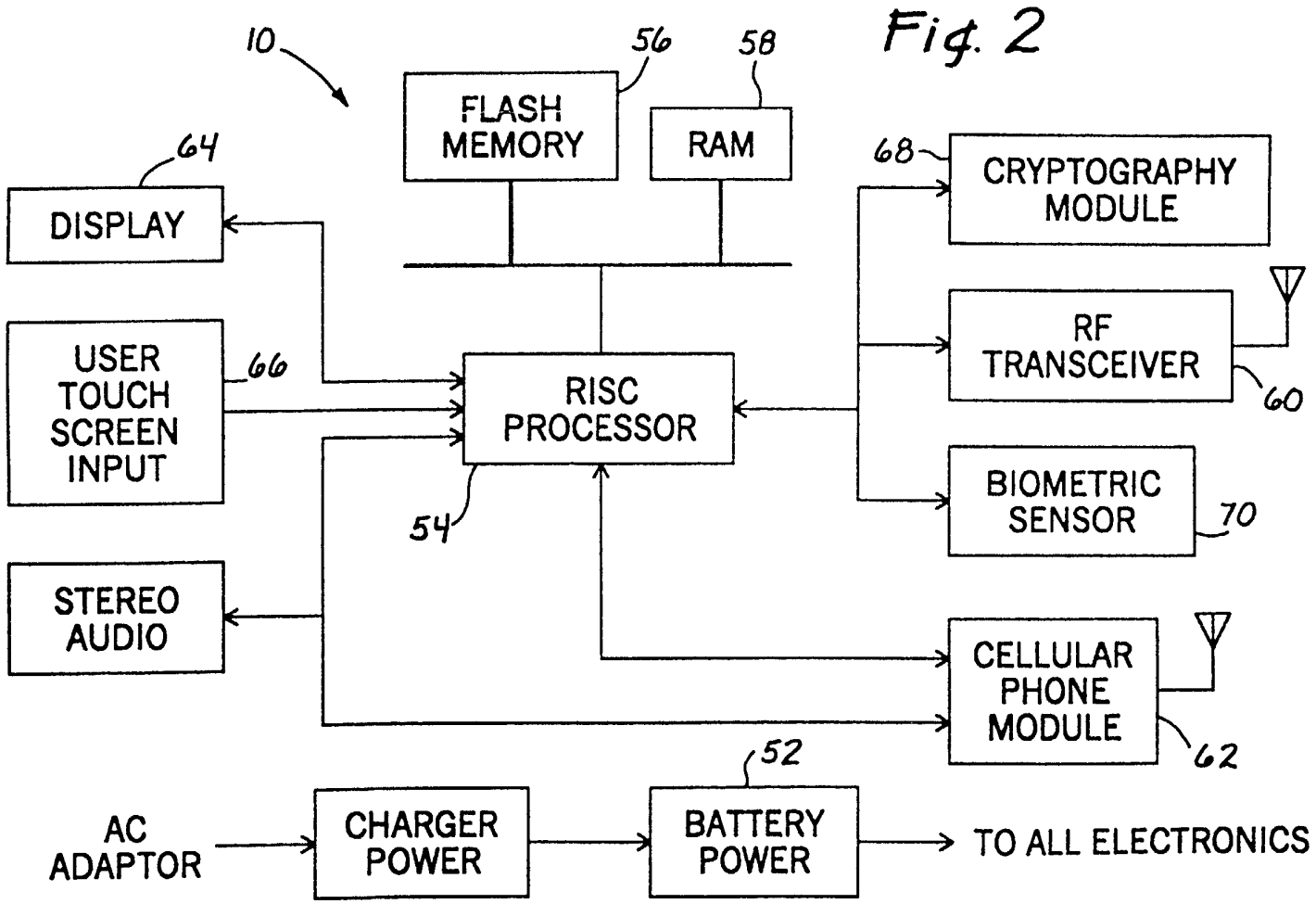


Fig. 2

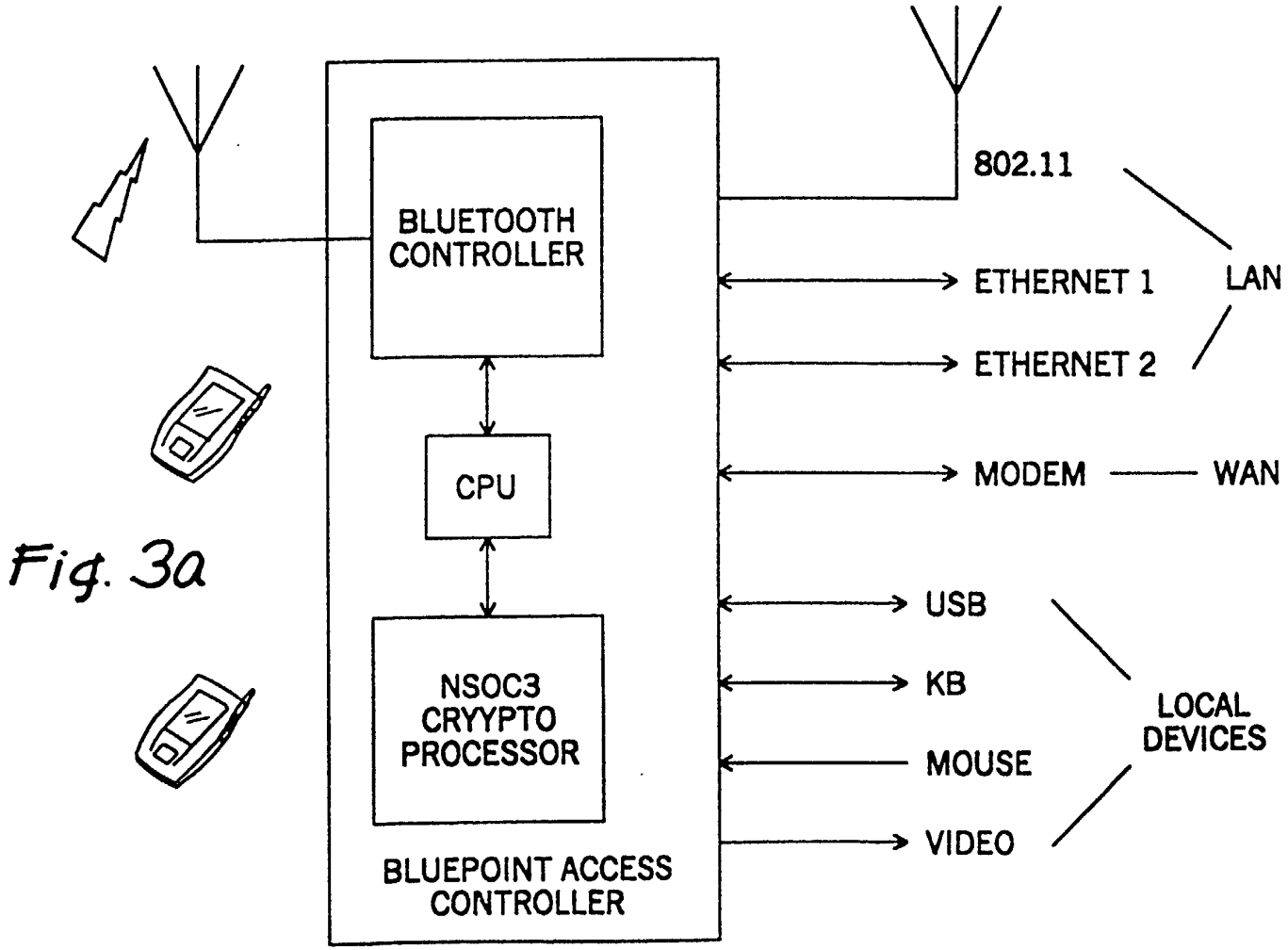

BLUETOOTH CONTROLLER
CPU
NSOC3 CRYYPTO PROCESSOR
BLUEPOINT ACCESS CONTROLLER
802.11
ETHERNET 1
ETHERNET 2
LAN
MODEM
WAN
USB
KB
MOUSE
VIDEO
LOCAL DEVICES

Fig. 3a

20030210 98806660

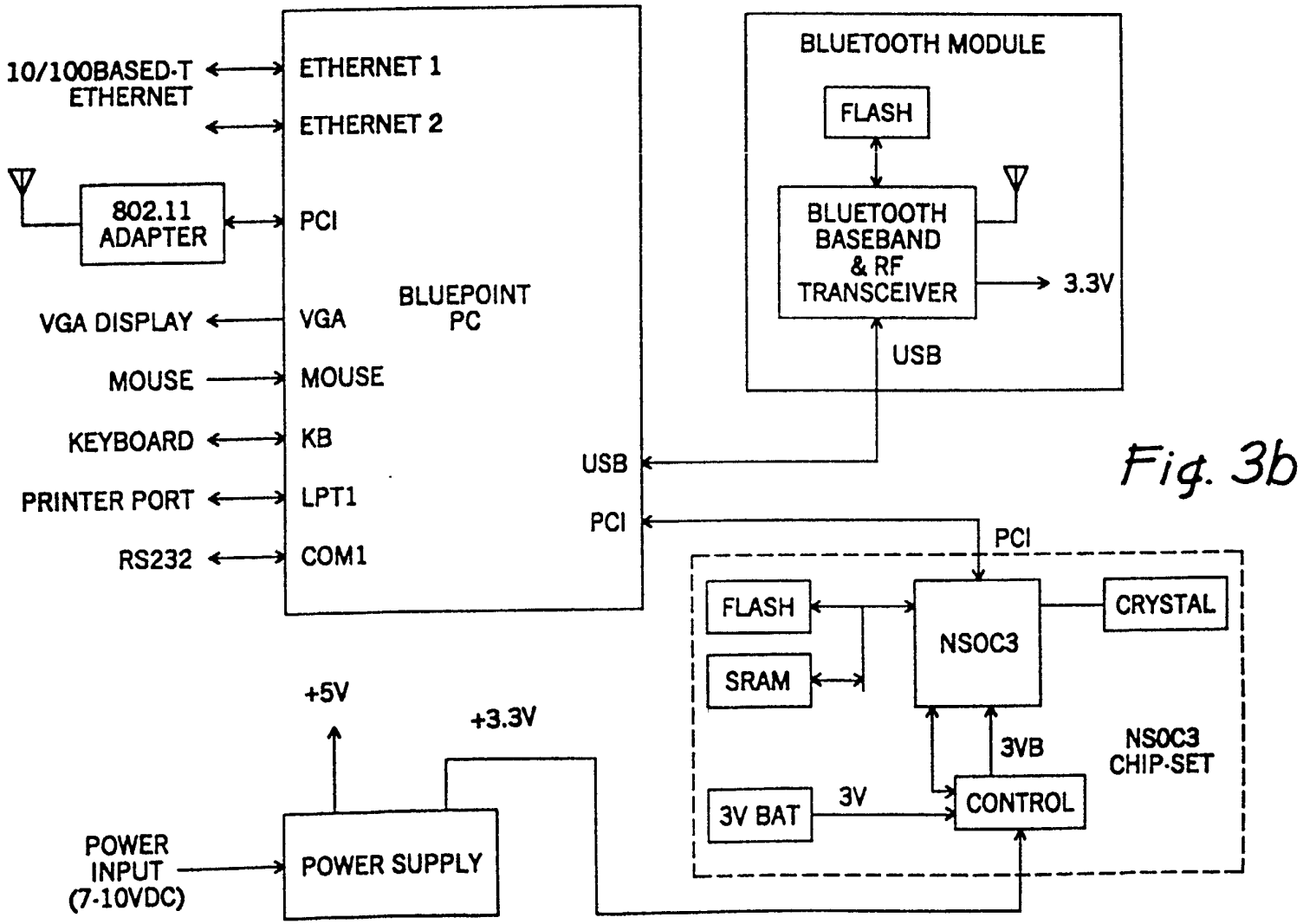


Fig. 3b

20502ED 98805660

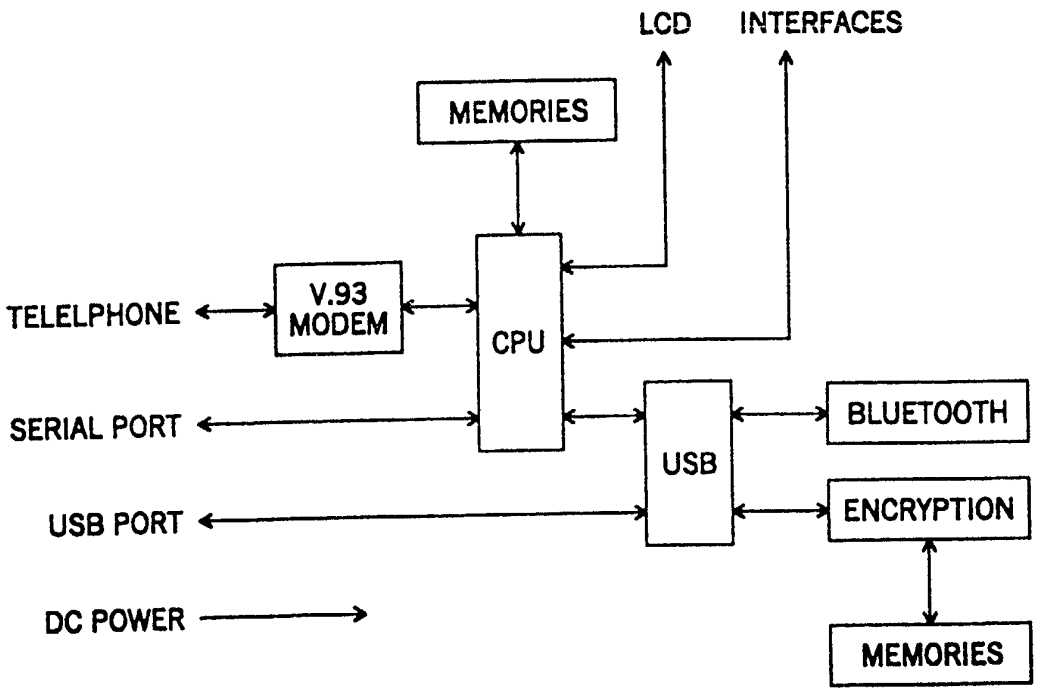


Fig. 4

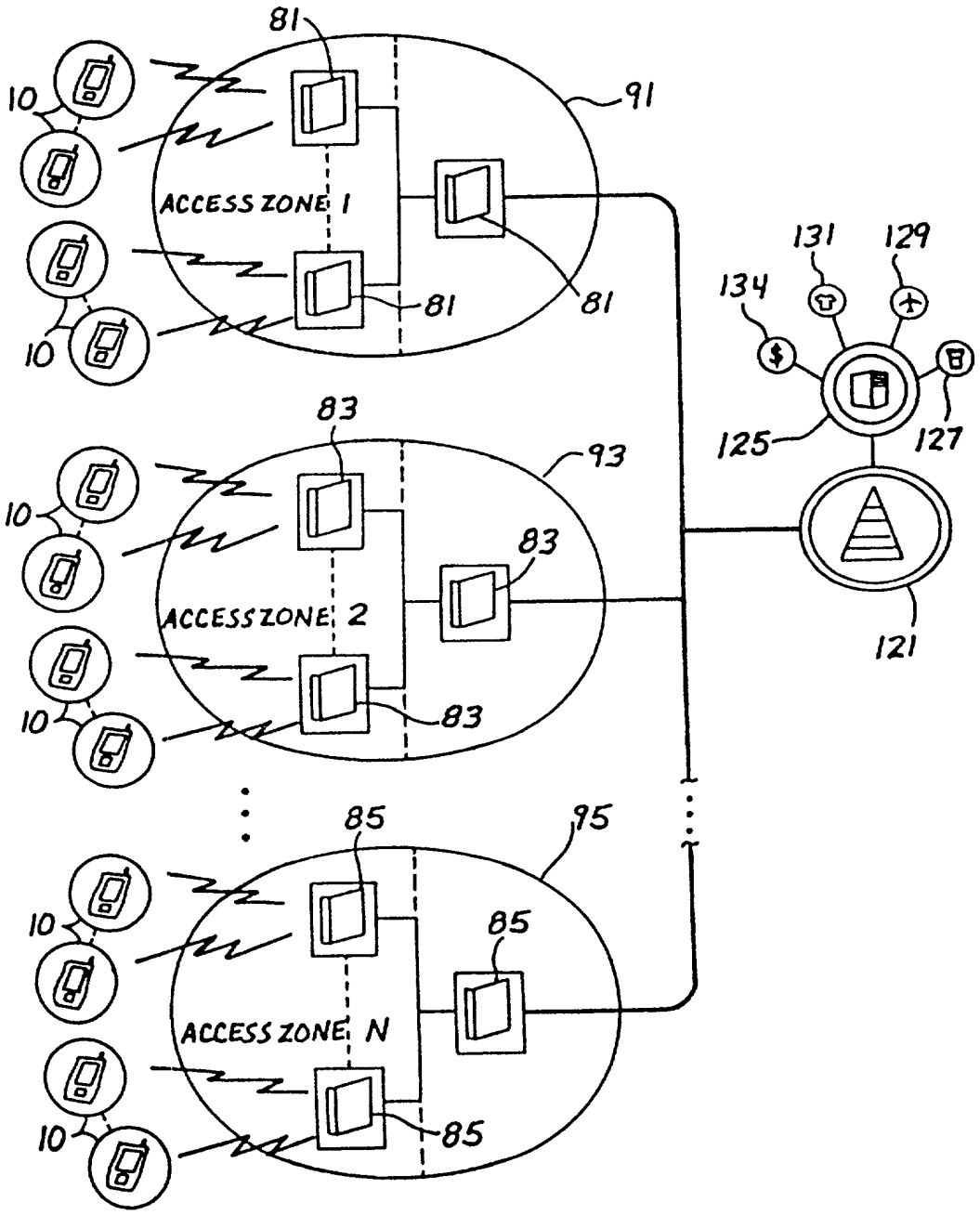
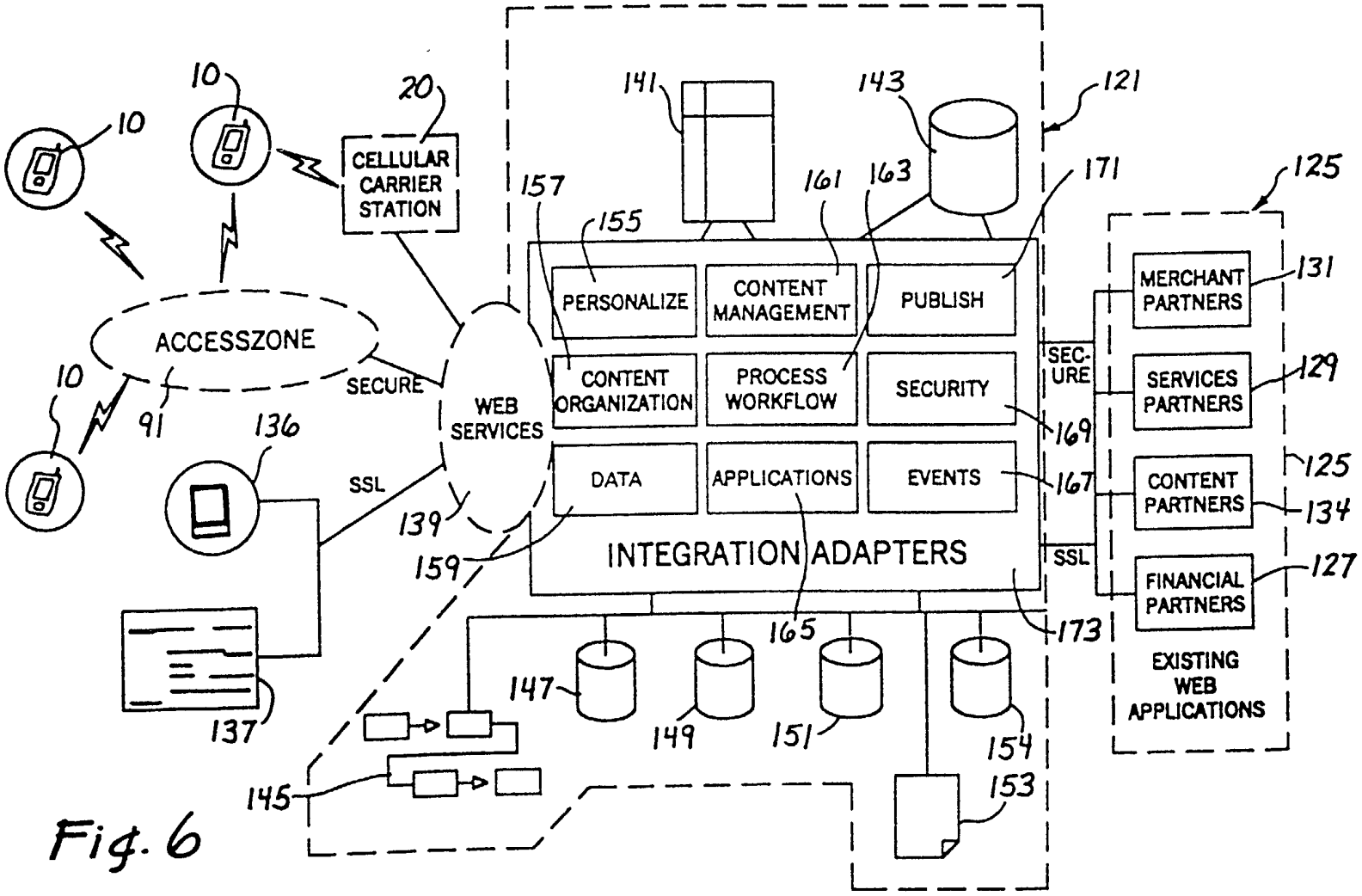

81
91
10
ACCESS ZONE 1
81
81
10
131
129
134
125
127
121
83
93
10
83
ACCESS ZONE 2
83
10
85
95
10
85
ACCESS ZONE N
85
10

Fig. 5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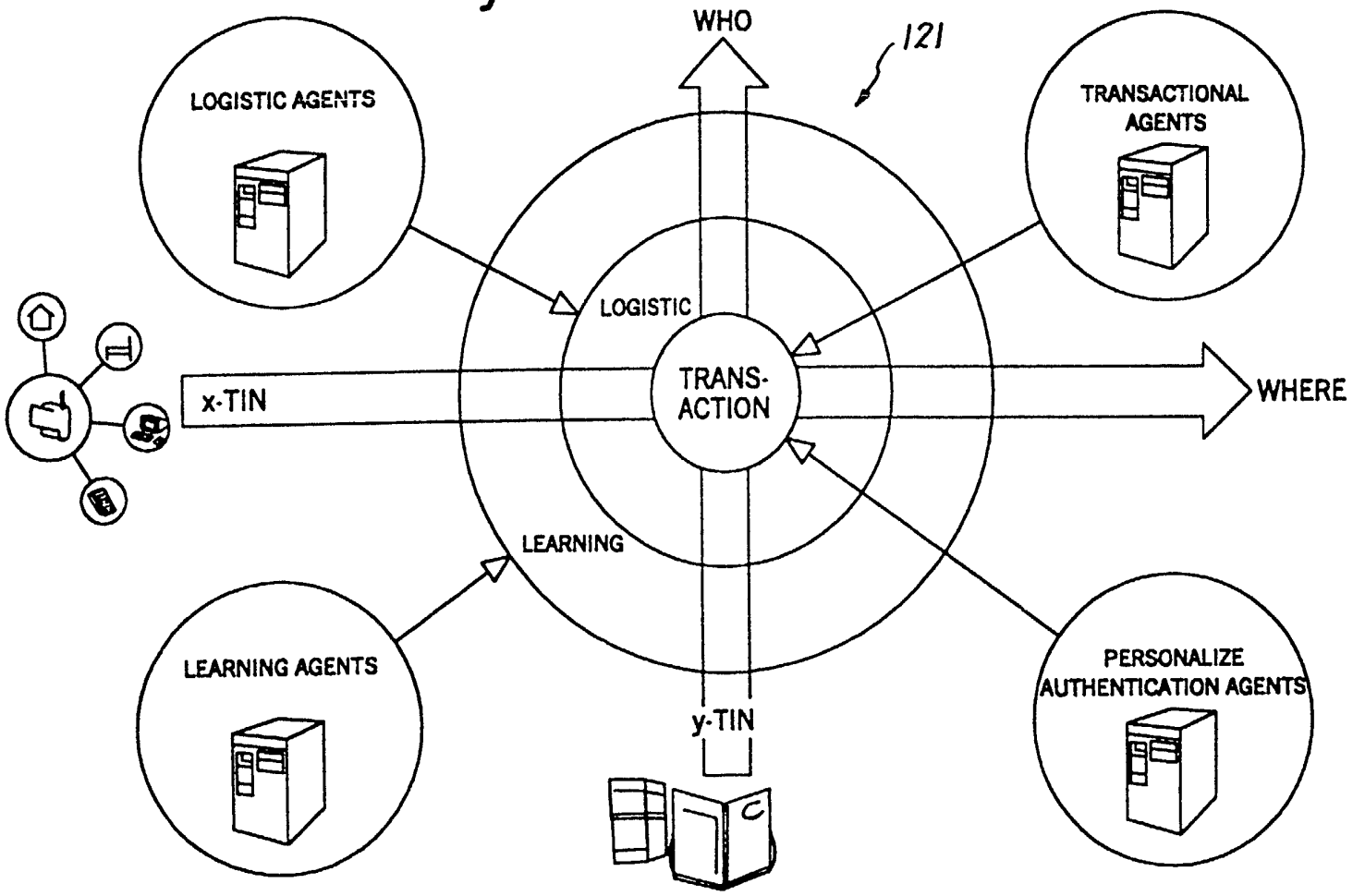
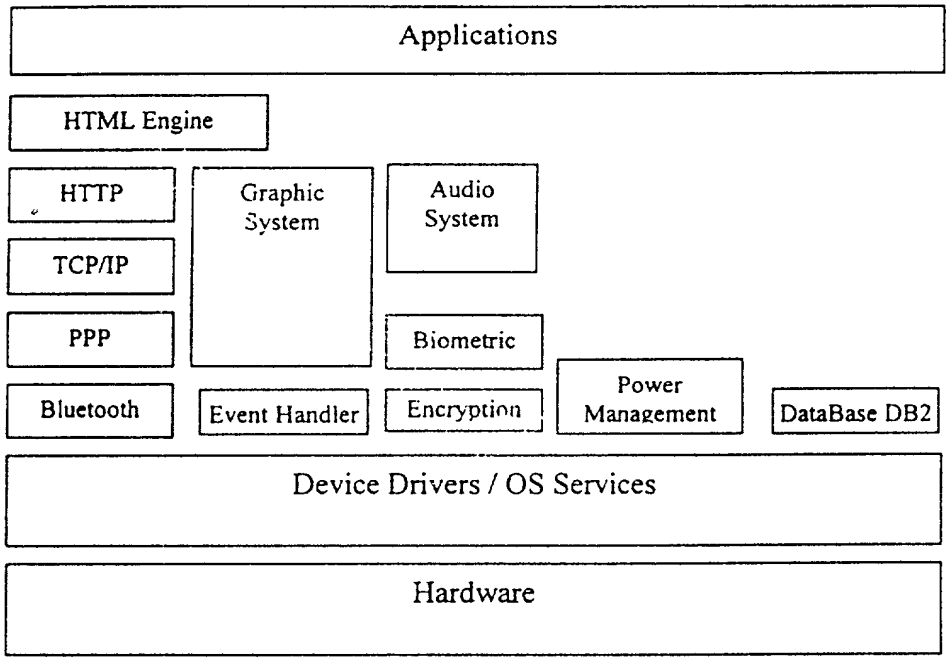
20
CELLULAR CARRIER STATION
ACCESSZONE
SECURE
91
136
SSL
137
WEB SERVICES
139
159
141
143
121
157
155
161
163
171
125
PERSONALIZE
CONTENT MANAGEMENT
PUBLISH
CONTENT ORGANIZATION
PROCESS WORKFLOW
SECURITY
169
DATA
APPLICATIONS
EVENTS
167
INTEGRATION ADAPTERS
SEC-URE
SSL
173
165
147
149
151
154
153
145
MERCHANT PARTNERS
131
SERVICES PARTNERS
129
CONTENT PARTNERS
125
134
FINANCIAL PARTNERS
127
EXISTING WEB APPLICATIONS

Fig. 6

20506C0" 98802660

Fig. 7





Simplified m-ENGINE™ Software Block Diagram

Fig. 8

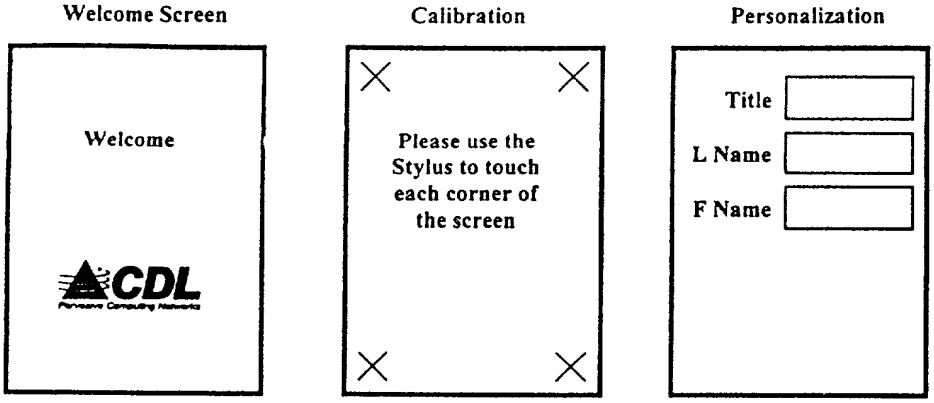


Figure 9

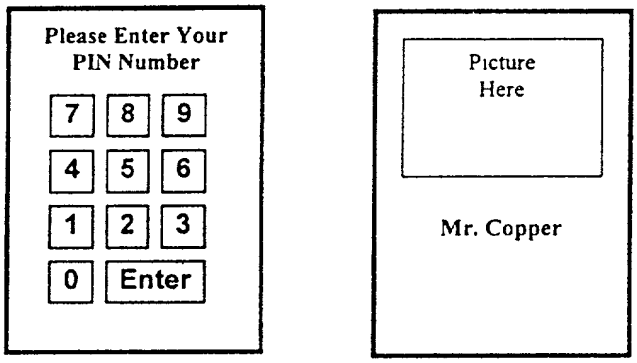


Figure 10

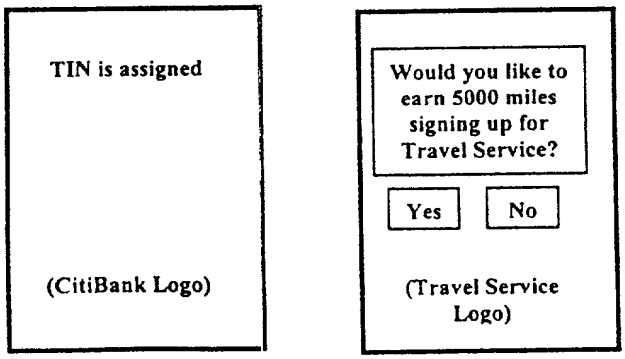


Figure 11

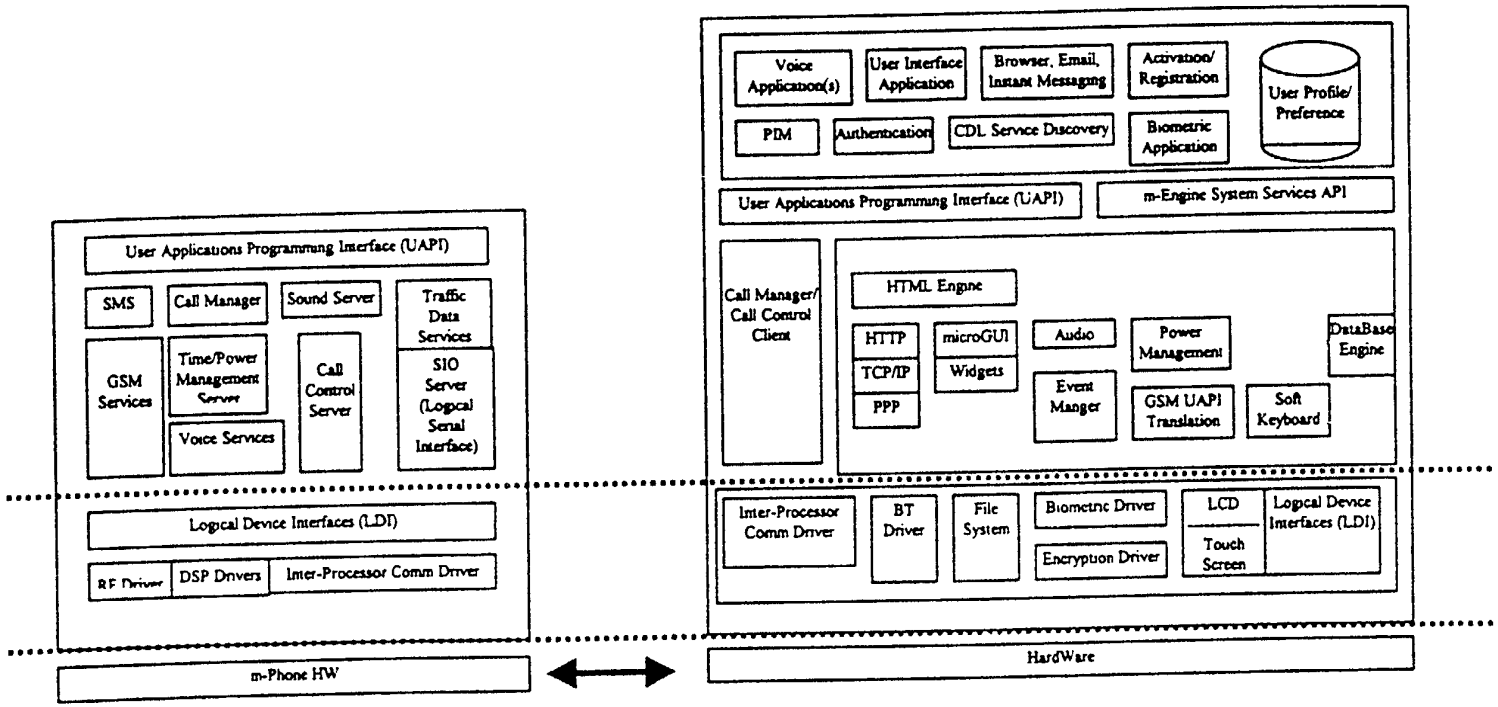
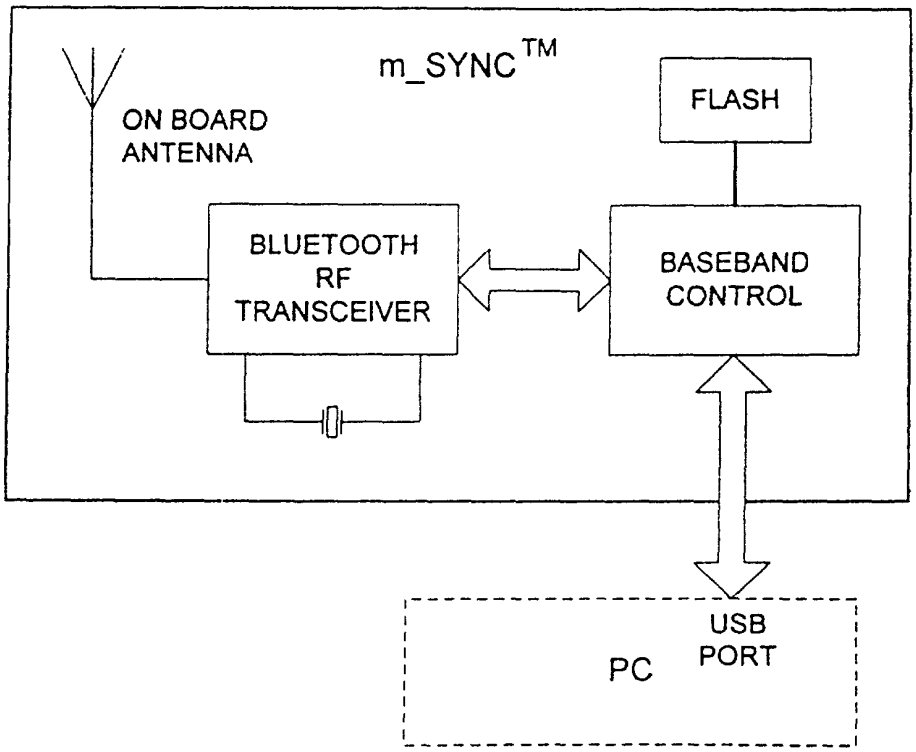
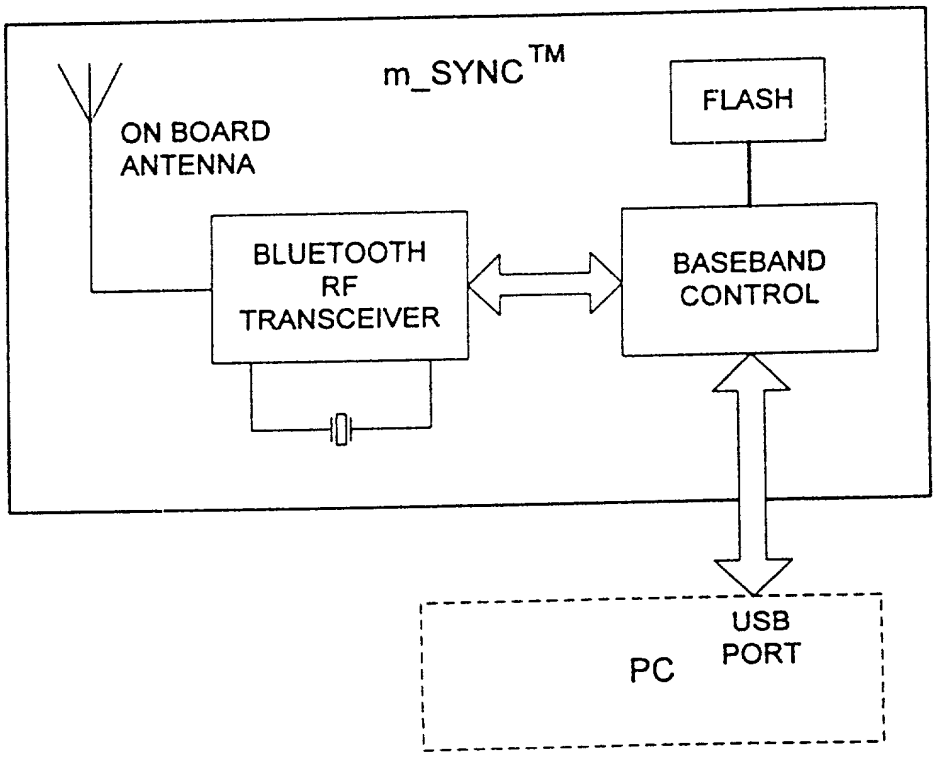

Voice Application(s)
User Interface Application
Browser, Email, Instant Messaging
Activation/ Registration
User Profile/ Preference
PIM
Authentication
CDL Service Discovery
Biometric Application
User Applications Programming Interface (UAPI)
m-Engine System Services API
Call Manager/ Call Control Client
HTML Engine
HTTP
TCP/IP
PPP
microGUI
Widgets
Audio
Power Management
DataBase Engine
Event Manger
GSM UAPI Translation
Soft Keyboard
Inter-Processor Comm Driver
BT Driver
File System
Biometric Driver
Encryption Driver
LCD
Touch Screen
Logical Device Interfaces (LDI)
HardWare
User Applications Programming Interface (UAPI)
SMS
Call Manager
Sound Server
Traffic Data Services
GSM Services
Time/Power Management Server
Voice Services
Call Control Server
SIO Server (Logical Serial Interface)
Logical Device Interfaces (LDI)
RF Driver
DSP Drivers
Inter-Processor Comm Driver
m-Phone HW

Fig. 12



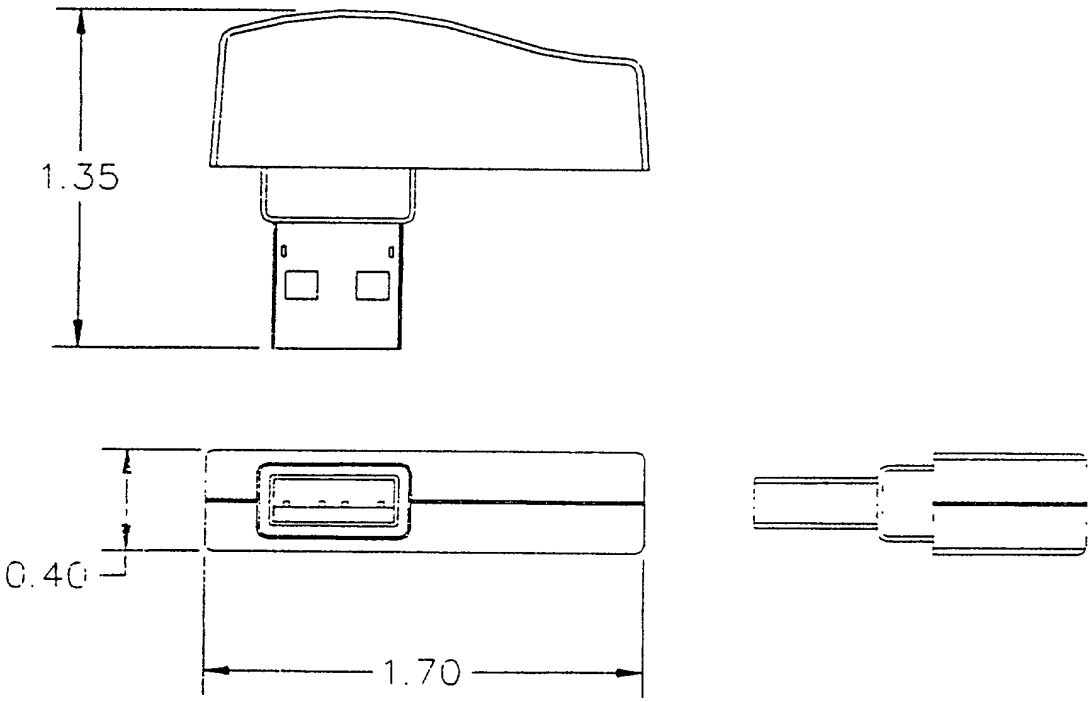
Simplified m-SYNC™ System Block Diagram.

Fig. 13



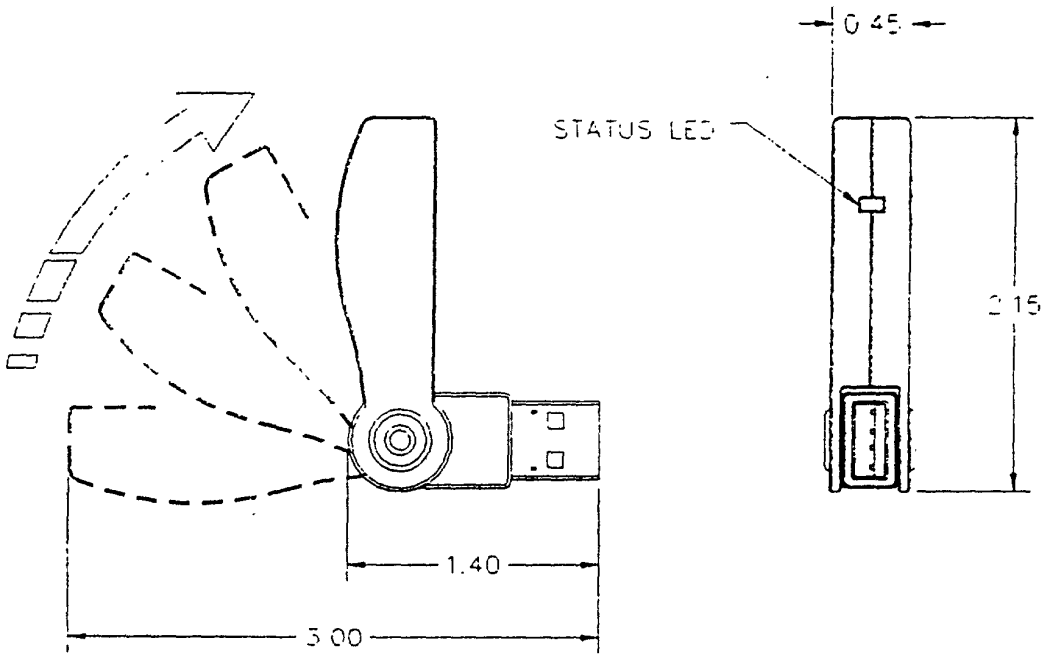
Simplified m-SYNC™ System Block Diagram.

Fig 14



m-SYNC™ I External Dimension and Packaging

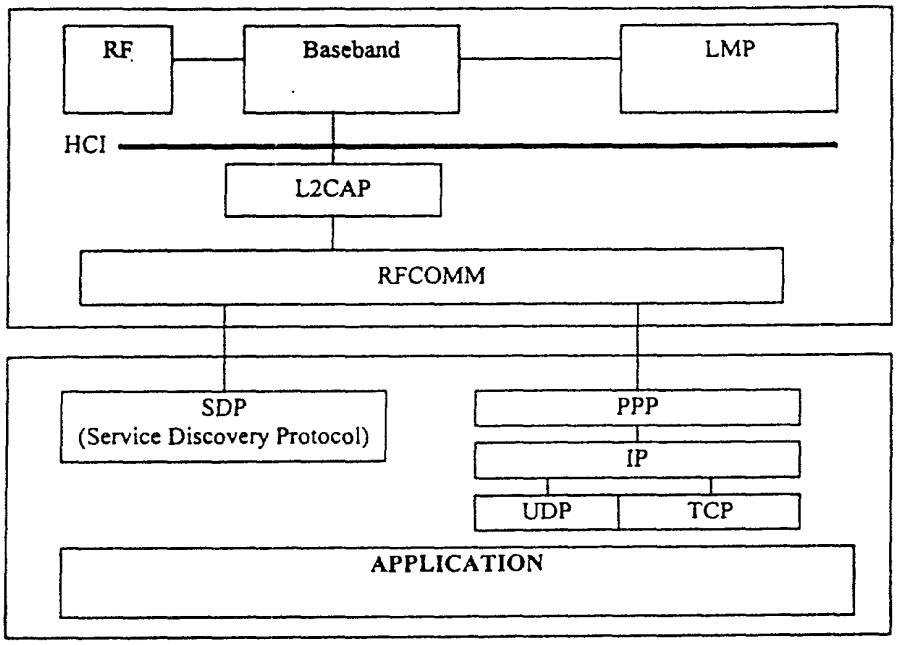
Fig. 15



m-SYNC™ II External Dimension and Packaging

Fig. 16

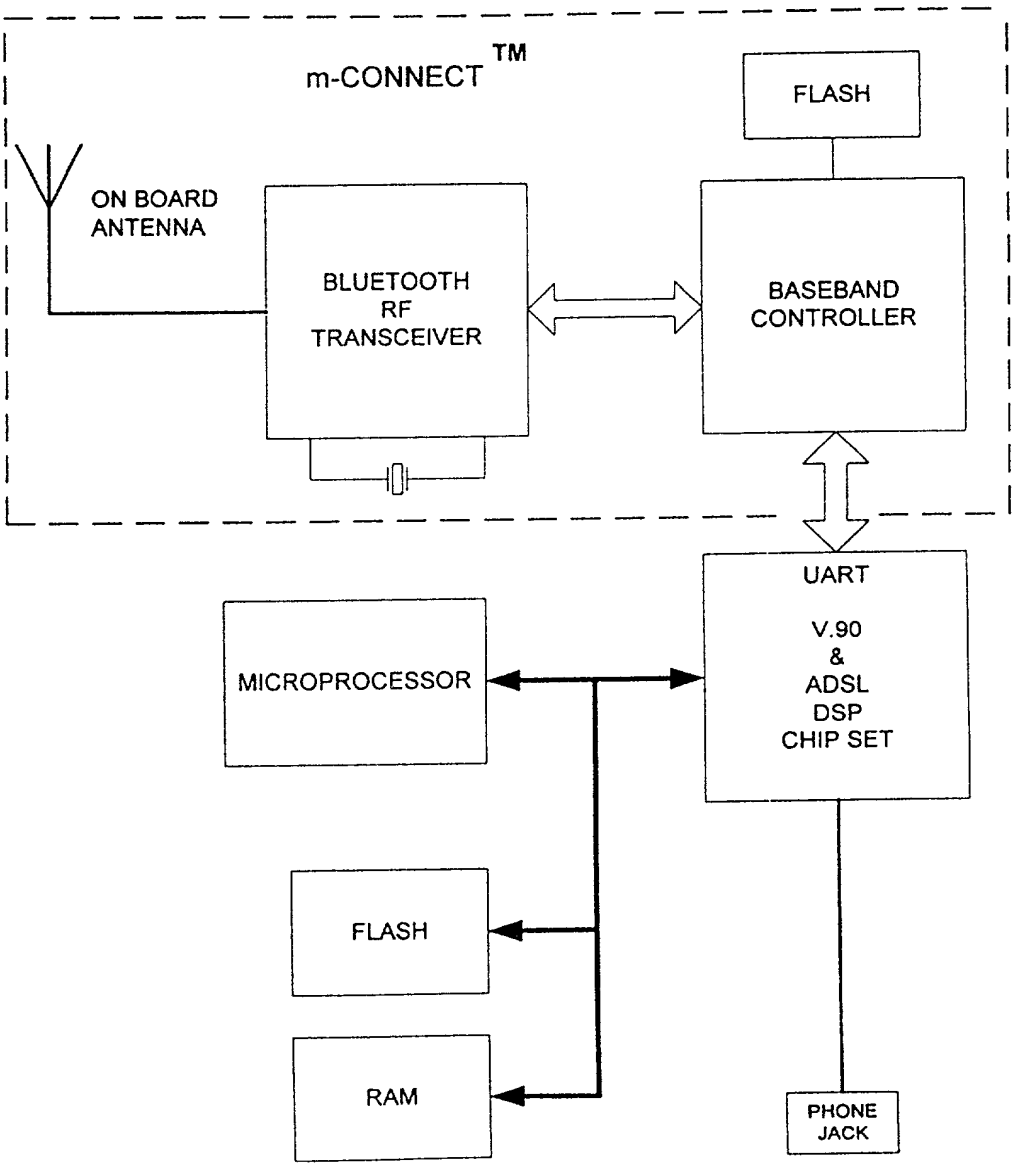
Bluetooth software/firmware block



m-SYNC™

PC

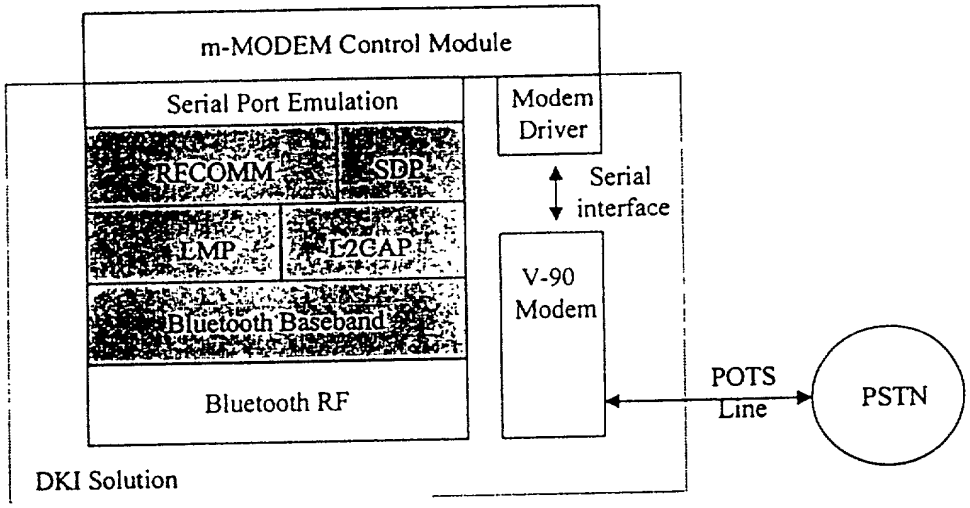
Fig. 17



Simplified m-MODEM™ System Block Diagram.

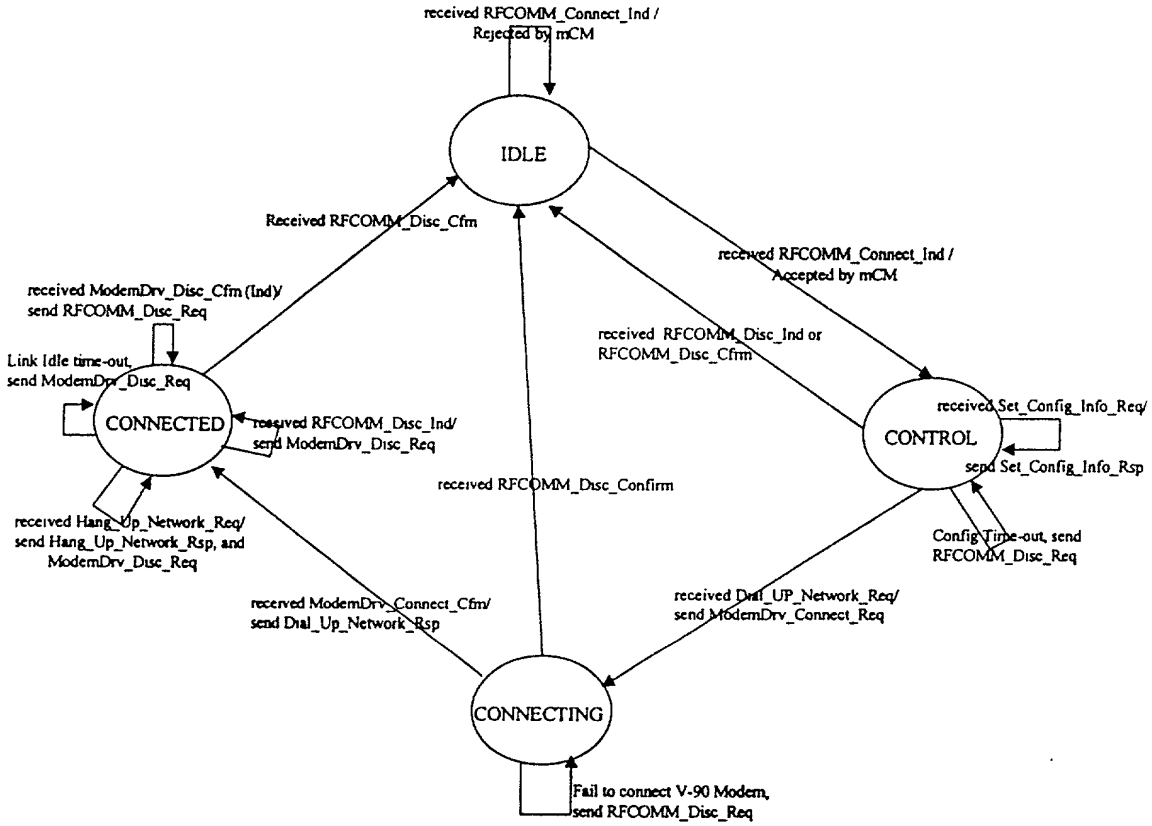
Fig. 18

m-MODEM



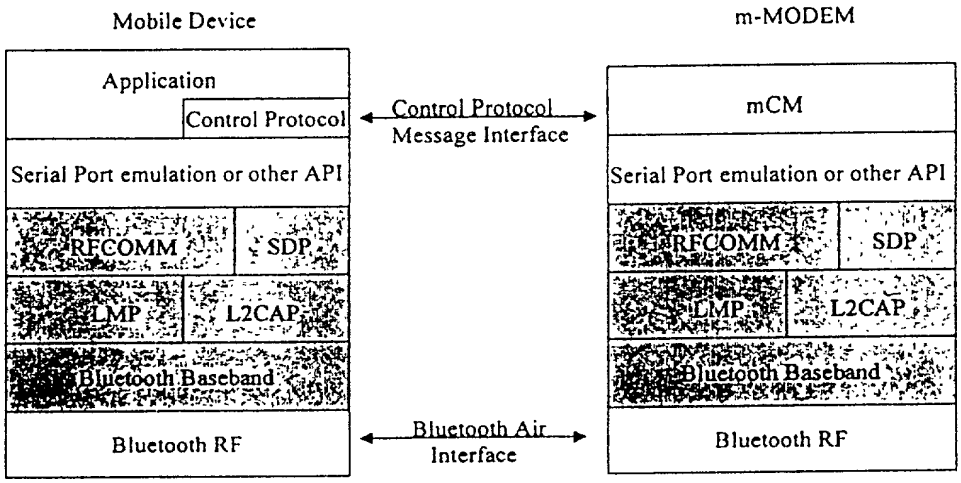
Note: 1. Shaded area indicates the Bluetooth Serial Port Profile stack.
2. Area enclosed in the dotted line indicates the solution provided by DKI.

Fig. 19



mCM State Transition Diagram

Fig. 20



mCM and Mobile Device Control Protocol interface

Fig. 21